Commonwealth of Kentucky

Natural Resources and Environmental Protection Cabinet
Department for Environmental Protection
Division for Air Quality
803 Schenkel Lane
Frankfort, Kentucky 40601
(502) 573-3382

Title V
AIR QUALITY PERMIT
Issued under 401 KAR 52:020

Permittee Name:	**Florida Tile Industries, Incorporated**
Mailing Address:	**P. O. Box 447, Lakeland, Florida 33802**
Source Name:	**Florida Tile Industries, Incorporated**
Mailing Address:	**1247 Alton Road** **Lawrenceburg, Kentucky 40342**
Source Location:	**Same as above**
Permit Number:	**V-04-031**
Log Numbers:	**(53474, 53921, 53509, 54080, 55301, 55823, 55987, 56300)**
Review Type:	**Title V / Synthetic Minor**
Source ID #:	**21-005-00008**
Regional Office:	**Frankfort Regional Office** **643 Teton Trail, STE B** **Frankfort, KY 40601-1758** **(502) 564-3358**
County:	**Anderson**
Application Complete Date:	**May 27, 2004**
Issuance Date:	
Revision Date:	
Expiration Date:	

John S. Lyons, Director
Division for Air Quality

TABLE OF CONTENTS

SECTION A - PERMIT AUTHORIZATION

Pursuant to a duly submitted application the Kentucky Division for Air Quality hereby authorizes the operation of the equipment described herein in accordance with the terms and conditions of this permit. This permit has been issued under the provisions of Kentucky Revised Statutes Chapter 224 and regulations promulgated pursuant thereto.

The permittee shall not construct, reconstruct, or modify any affected facilities without first having submitted a complete application and received a permit for the planned activity from the permitting authority, except as provided in this permit or in 401 KAR 52:020, Title V Permits.

Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by this Cabinet or any other federal, state, or local agency.

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS

RAILCAR UNLOADING AND RAW MATERIAL STORAGE

EMISSION POINT	DESCRIPTION
04	Railcar Unloading Facility: Unloading shed and Fuller Kenyon pump Control Equipment: enclosure and boot Installed: June 1968
90	Raw Material Storage Piles: Bisque and unmilled raw materials in covered area Proposed: 2004

APPLICABLE REGULATIONS:
401 KAR 63:010, *Fugitive emissions*, applies to the Railcar Unloading and Raw Material Storage Piles.

1. **Operating Limitations:** NA

2. **Emission Limitations:**
   All reasonable measure shall be taken to prevent particulate matter from becoming airborne at all times from the railcar unloading operations and raw material storage piles. These measures shall include, but are not limited to the following:
   a. A shed shall be used to enclose the unloading operations.

   b. Use of a dust control coupling for the railcar unloading operations.

   c. Pavement wetting outside storage pile covered area.

3. **Testing Requirements:** NA

4. **Specific Monitoring Requirements:** NA

5. **Specific Recordkeeping Requirements:** NA

6. **Specific Reporting Requirements:** NA

7. **Specific Control Equipment Operating Conditions:** NA

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

TILE BODY PREPARATION:

EMISSION POINT	DESCRIPTION
01	Silo System #1: Silo, gyrator screen, weigh hopper, and screw conveyor Control Equipment: Bin Vent Filter. Efficiency: 98.7% Modified: May 1995.
02	Silo System #3: Silo, gyrator screen, weigh hopper, and screw conveyor Control Equipment: Bin Vent Filter Efficiency: 98.7% Modified: May 1995.
03	Silo System #2: Silo, 2 gyrator screens, 2 weigh hoppers, and 2 screw conveyors Control Equipment: Bin Vent Filter Efficiency: 98.7% Modified: May 1995.
11	Fast Fire Body Mixer System: Eirich mixer, feed conveyor, conveyor, surge hopper and bucket elevator. Control Equipment: Baghouse, Efficiency: 98.7% Installed: May 1995.
16	Fast Fire Rework System: 2 rework hoppers, grinder, cyclone receiver, surge hopper, screw conveyor, and weigh hopper Control Equipment: Baghouse, Efficiency: 98.7% Installed: May 1995.
53	Silo System # 6: Silo, gyrator screen, weigh hopper, and screw conveyor. Control Equipment: Bin Vent Filter Efficiency: 98.7% Installed: June 1987.
54	Silo System # 5: Silo, gyrator screen, weigh hopper. Control Equipment: Bin Vent Filter Efficiency: 98.7% Installed: June 1987.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

EMISSION POINT	DESCRIPTION
55	Silo System # 4: Silo, 2 gyrator screens, 2 weigh hoppers, belt conveyors, and screw conveyor. Control Equipment: Bin Vent Filter Efficiency: 98.7% Modified: May 1995.
56	Traditional Body Mixer: Eirich mixer, 2 bucket elevators, 2 conveyor belts, surge hopper and screw conveyor. Control Equipment: Baghouse, Efficiency: 98.7% Installed: June 1987.
57	Traditional Body Rework System: Rework hopper, 5 screw conveyors, grinder, screen, bucket elevator, rework surge hopper and rework weigh hopper. Control Equipment: Baghouse, Efficiency: 98.7% Modified: July 1993.
58	Dust Recycle System for Traditional Body Preparation: 2 screw conveyors, bucket elevator, dust surge hopper, gyrator screen and weigh hopper. Control Equipment: Baghouse, Efficiency: 98.7% Installed: October 1987.
59	Traditional Body Transport System: Wet storage bin, bucket elevator and Dynamic Air Pneumatic transporter. Control Equipment: Baghouse, Efficiency: 98.7% Installed: October 1987.
62	Dust Recycle System for Fast Body Preparation: Surge hopper, dust screen, weigh hopper and screw conveyor. Control Equipment: Baghouse, Efficiency: 98.7% Installed: May 1995.
63	Fast Fire Body Transport System: Belt conveyor, bucket elevator, surge hopper and Dynamic Air pneumatic transporter. Control Equipment: Baghouse, Efficiency: 98.7% Installed: May 1995.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

APPLICABLE REGULATIONS:
401 KAR 59:010, *New process operations*, applies to emission units constructed or modified on or after July 2, 1975.

Florida Tile Industries, Inc. has requested voluntary limits to preclude the applicability of 401 KAR 51:017, Prevention of Significant Deterioration of Air Quality. See **Section D, Source Wide Requirements**.

1. **Operating Limitations:** NA

2. **Emission Limitations:**
   a. Pursuant to 401 KAR 59:010, Appendix A, the emissions of particulate matter for each respective emission point listed under Tile Body Preparation, shall not exceed the allowable rate limit as calculated by the following equations using the process weight rate (in units of tons/hr).

      For process rates up to 1,000 lbs/hr: $E = 2.34$
      For process rates up to 60,000 lbs/hr: $E = 3.59\ P^{0.62}$
      For process rates in excess of 60,000 lbs/hr: $E = 17.31\ P^{0.16}$

      For the equations: E = rate of emission in lb/hr and P = process weight rate in tons/hr.

      Compliance Demonstration Method:

      Compliance with the hourly emission limit shall be determined as follows:

      Hourly Emission Rate = [Monthly amount of material processed x Emission factor listed in Kentucky Emissions Inventory x (1 - efficiency of the control device) ÷ (Total hours of operation per month)]

   b. Pursuant to 401 KAR 59:010, Section 3, no person shall cause, suffer, allow or permit any continuous emission into the open air from a control device or stack which is equal to or greater than twenty (20) percent opacity.

      Compliance Demonstration Method:

      Compliance with the opacity limits shall be determined as follows:
      i. During periods of normal operation of the control device or control devices or baghouses, no compliance demonstration is necessary.

      ii. If any of the emission units associated with a control device or baghouse are in operation during any period of malfunction of the associated control device or baghouse, the permittee shall determine compliance through maintenance records required by Item c under **5. Specific Recordkeeping Requirements** (below).

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

c. See **Section D, Source Wide Requirements**.

3. Testing Requirements:

a. Pursuant to 401 KAR 59:005, Section 2(2) and 401 KAR 50:045, Section 1, performance testing using the reference methods specified in 401 KAR 50:015 shall be conducted as required by the Division.

b. See **Section D, Source Wide Requirements** for additional testing requirements.

4. Specific Monitoring Requirements:

a. The permittee shall monitor the following information:
   i. The monthly amount of material placed in each silo (number of hoppers unloaded into each silo multiplied by the average weight of raw material in each hopper).
   ii. The monthly input hours of operation (hours loaded/month) of each silo.

b. The permittee shall:
   i. Install, calibrate, maintain, and operate according to the manufacturer's specifications a monitoring device to determine the static pressure drop across every baghouse associated with EP 11, EP 16, EP 56, EP 57, EP 58, EP 59, EP 62, and EP 63. The pressure drop shall be recorded once a day during the operation of the respective process unit.
   ii. Conduct daily observations of the visible emissions from EP 01, EP 02, EP 03, EP 53, EP 54 and EP 55. These observations shall only be required for deliveries that occur during daylight hours. If visible emissions are observed, the permittee shall perform an EPA Method 9 opacity reading or document why such test is unable to be performed.
   iii. Conduct daily observations during all periods of startup, shutdown, or malfunction of any control devices or baghouses. If visible emissions are observed, the permittee shall perform an EPA Method 9 opacity reading immediately or document why such test is unable to be performed.

5. Specific Recordkeeping Requirements:

a. The permittee shall maintain records of the following information for the control device or baghouses:
   i. The operational procedures and preventive maintenance records.
   ii. Daily records of the pressure drop across the baghouses associated with EP 11, EP 16, EP 56, EP 57, EP 58, EP 59, EP 62, and EP 63 during all periods of operation.
   iii. All maintenance activities performed at any control device or baghouse.

b. During all periods of operation, startup, shutdown, or malfunction of any control devices or baghouses, a daily log of the following information shall be kept:
   i. Whether any air emissions were visible from the facilities associated with the control device or baghouse of concern.
   ii. Whether the visible emissions were normal for the process.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

If visible emissions are observed, the permittee shall record the following information:

1. The cause of the visible emissions.
2. Any corrective actions taken.
3. If performed, the dates, times, and results of each EPA Method 9 opacity reading.

c. The permittee shall record the occurrence, duration, cause, and any corrective action taken for each incident when the emission points are in operation but the associated control device or baghouse is not.

d. See **4. Specific Monitoring Requirements** (above) and **Section D, Source Wide Requirements** for additional recordkeeping requirements.

6. Specific Reporting Requirements:

See **Section D, Source Wide Requirements** for reporting requirements.

7. Specific Control Equipment Operating Conditions:

a. The control devices or baghouses associated with EP 01, EP 02, EP 03, EP 11, EP 16, EP 53, EP 54, EP 55, EP 56, EP 57, EP 58, EP 59, EP 62, and EP 63 shall control particulate emissions and be operated properly in accordance with the manufacturer's specifications and/or standard operating procedures at all times the emission points are in use.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

SPRAY DRYER OPERATIONS:

EMISSION POINT	DESCRIPTION
73	Blunger System: Conveyors, receiving hopper, and 2 blungers. Control Equipment: Bin Vent Filter Efficiency: 98.7% Modified: 2004.
74	Spray Dryer Control Equipment: Baghouse, Efficiency: 98.7% Installed: November 1999.
75	Prill Silos and Handling System: Conveyors, four (4) Silos. Control Equipment: Baghouse, Efficiency: 98.7% Installed: November 1999.
76	Prill Transport System: Conveyor, storage tank, and pneumatic transporter Control Equipment: Baghouse, Efficiency: 98.7% Proposed: 2004.

APPLICABLE REGULATIONS:
40 KAR 59:010, New process operations, applies to emission units constructed or modified on or after July 2, 1975. All standards under this regulation are superseded by the more stringent standards under 40 CFR 60, Subpart UUU for the Spray Dryer EP 74.

40 CFR 60, Subpart UUU, Standard of Performance for Calciners and Dryers in Mineral Industries, incorporated by reference at 401 KAR 60:005, Section 3 (1) (rrr), applies to spray dryers constructed or modified on or after April 23, 1986 (EP 74 is exempt from continuous opacity monitoring required under 40 CFR 60.734 based on particulate emissions below 11 tons/yr).

Florida Tile Industries, Inc. has requested voluntary limits to preclude the applicability of 401 KAR 51:017, Prevention of Significant Deterioration of Air Quality. See **Section D, Source Wide Requirements**.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

1. Operating Limitations: NA

2. Emission Limitations:

a. Pursuant to 401 KAR 59:010, Appendix A, the emissions of particulate matter for each respective emission point (EP 73, 75, and 76) shall not exceed the allowable rate limit as calculated by the following equations using the process weight rate (in units of tons/hr).

For process rates up to 1,000 lbs/hr: $E = 2.34$
For process rates up to 60,000 lbs/hr: $E = 3.59\ P^{0.62}$
For process rates in excess of 60,000 lbs/hr: $E = 17.31\ P^{0.16}$

For the equations: E = rate of emission in lb/hr and P = process weight rate in tons/hr

Compliance Demonstration Method:

Compliance with the hourly emission limit shall be determined as follows:

Hourly Emission Rate = [Monthly amount of material processed x Emission factor listed in Kentucky Emissions Inventory x (1 - efficiency of the control device) ÷ (Total hours of operation per month)]

b. Pursuant to 401 KAR 59:010, Section 3, no person shall cause, suffer, allow or permit any continuous emission into the open air from a control device or stack associated with EP 73, 75, or 76 which is equal to or greater than twenty (20) percent opacity.

c. Pursuant to 40 CFR 60.732, emissions of particulate matter from the Spray Dryer (EP 74) shall not exceed 0.057 g/dscm (0.025 gr/dscf). In order to be exempt from monitoring requirements in 40 CFR 60.734 emissions of particulate matter from the Spray Dryer (EP 74) shall not exceed 11 tons per year.

Compliance Demonstration Method:

The permittee shall maintain records of emissions of particulate matter from the Spray Dryer (EP 74). See **7. Specific Control Equipment Operating Conditions**.

d. Pursuant to CFR 60.732, no emissions shall be discharged from the Spray Dryer (EP 74) exhibiting greater than 10% opacity.

Compliance Demonstration Method:

Compliance with the opacity limits shall be determined as follows:

i. During periods of normal operation of the control devices or baghouses, no compliance demonstration is necessary.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

ii. If any of the emission units associated with a control device or baghouse are in operation during any period of malfunction of the associated control device or baghouse, the permittee shall determine compliance through maintenance records required by Item d under **5. Specific Recordkeeping Requirements** (below).

e. See **Section D, Source Wide Requirements**.

3. Testing Requirements:

a. Pursuant to 401 KAR 59:005, Section 2 (2) and 401 KAR 50:045, Section 1, performance testing using the reference methods specified in 401 KAR 50:015 shall be conducted as required by the Division.

b. Pursuant to 40 CFR 60 Subpart UUU, particulate matter testing in accordance with Method 5 shall be conducted on EP 74 within 180 days of issuance of the proposed permit. The sampling time and volume for each test run shall be at least 2 hours and 1.70 dscm.

c. Pursuant to 40 CFR Subpart UUU, testing of opacity from stack emissions in accordance with Method 9 and the procedures in 40 CFR 60 Subpart A 60.11 shall be conducted monthly.

d. See **Section D, Source Wide Requirements** for additional testing requirements.

4. Specific Monitoring Requirements:

a. The permittee shall monitor the following parameters:
   i. The monthly amount of material placed in EP 73 and 74. For EP 74, this shall equal the hours of operation multiplied by the standard production rate.
   ii. The monthly hours of operation (hours operated/month) of EP 73 and EP 74. For EP 73, this equals the standard batch time multiplied by the number of batches.

b. The permittee shall:
   i. Install, calibrate, maintain, and operate according to the manufacturer's specifications a monitoring device to determine the static pressure drop across the baghouse associated with EP 74 and EP 75. These monitoring devices shall be read and the results recorded once a day during the operation of the respective process unit.
   ii. Conduct daily observations of the visible emissions from EP 73. If visible emissions are observed, the permittee shall perform an EPA Method 9 opacity reading or document why such test is unable to be performed.
   iii. Conduct daily observations during all periods of startup, shutdown, or malfunction of any control devices or baghouses. If visible emissions are observed, the permittee shall perform an EPA Method 9 opacity reading immediately or document why such test is unable to be performed.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

5. Specific Recordkeeping Requirements:

a. The permittee shall maintain records of the following information for the control devices or baghouses:
   i. The operational procedures and preventive maintenance records.
   ii. Daily records of the pressure drop across the baghouses during all periods of operation.
   iii. All maintenance activities performed at any control device or baghouse.

b. During all periods of operation, startup, shutdown, or malfunction of any control devices or baghouses. A daily log of the following information shall be kept:
   i. Whether any air emissions were visible from the facilities associated with the control device or baghouse of concern.
   ii. Whether the visible emissions were normal for the process.
   If no abnormal visible emissions are observed, then no further observations or records are required. If abnormal visible emissions are observed, the permittee shall record the following information:
      1. The cause of the visible emissions.
      2. Any corrective actions taken.
      3. If performed, the dates, times, and results of each EPA Method 9 opacity reading.

c. The permittee shall record the occurrence, duration, cause, and any corrective action taken for each incident when the emission points are in operation but the associated control device or baghouse is not.

d. See **4. Specific Monitoring Requirements** (above) and **Section D, Source Wide Requirements** for additional recordkeeping requirements.

6. Specific Reporting Requirements:
See **Section D, Source Wide Requirements** for reporting requirements.

7. Specific Control Equipment Operating Conditions:
The control devices or baghouses associated with EP 73, EP 74, EP 75, and EP 76 shall control particulate emissions and be operated properly in accordance with the manufacturer's specifications and/or standard operating procedures at all times the emission points are in use.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

BISQUE AND RAW MATERIAL MILLING

EMISSION POINT	DESCRIPTION
91	Pre-Crusher Control Equipment: Baghouse, Efficiency: 98.7% Proposed: 2004.
92	Grinding Mill/Vibrating Screen Control Equipment: Baghouse, Efficiency: 98.7% Proposed: 2004.
93	Bisque Storage Hopper Control Equipment: Baghouse, Efficiency: 98.7% Proposed: 2004.
94	Ball Mill Control Equipment: Baghouse, Efficiency: 98.7% Proposed: 2004.

APPLICABLE REGULATIONS:
40 KAR 59:010, New process operations, applies to emission units constructed or modified on or after July 2, 1975.

Florida Tile Industries, Inc. has requested voluntary limits to preclude the applicability of 401 KAR 51:017, Prevention of Significant Deterioration of Air Quality. See Section D, **Source Wide Requirements**.

1. **Operating Limitations:** NA

2. **Emission Limitations:**
   a. Pursuant to 401 KAR 59:010, Appendix A, the emissions of particulate matter for each respective emission point shall not exceed the allowable rate limit as calculated by the following equations using the process weight rate (in units of tons/hr).

      For process rates up to 1,000 lbs/hr: $E = 2.34$
      For process rates up to 60,000 lbs/hr: $E = 3.59\ P^{0.62}$
      For process rates in excess of 60,000 lbs/hr: $E = 17.31\ P^{0.16}$

      For the equations: E = rate of emission in lb/hr and P = process weight rate in tons/hr

      Compliance Demonstration Method:

      Compliance with the hourly emission limit shall be determined as follows:

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Hourly Emission Rate = [Monthly amount of material processed x Emission factor listed in Kentucky Emissions Inventory x (1 - efficiency of the control device) ÷ (Total hours of operation per month)]

b. Pursuant to 401 KAR 59:010, Section 3, no person shall cause, suffer, allow or permit any continuous emission into the open air from a control device or stack which is equal to or greater than twenty (20) percent opacity.

Compliance Demonstration Method:

Compliance with the opacity limits shall be determined as follows:

i. During periods of normal operation of the control devices or baghouses, no compliance demonstration is necessary.

ii. If any of the emission units associated with a control device or baghouse are in operation during any period of malfunction of the associated control device or baghouse, the permittee shall determine compliance through maintenance records required by Item d under **5. Specific Recordkeeping Requirements** (below).

c. See **Section D, Source Wide Requirements**.

3. Testing Requirements:

a. Pursuant to 401 KAR 59:005, Section 2 (2) and 401 KAR 50:045, Section 1, performance testing using the reference methods specified in 401 KAR 50:015 shall be conducted as required by the Division.

b. See **Section D, Source Wide Requirements** for additional testing requirements.

4. Specific Monitoring Requirements:

a. The permittee shall monitor and maintain records of the following parameters:

i. The monthly amount of material placed into EP 92 and EP 94.

ii. The monthly hours of operation (hours operated/month) of EP 92 and EP 94

b. The permittee shall install, calibrate, maintain, and operate according to the manufacturer's specifications a monitoring device to determine the static pressure drop across the baghouse associated with EP 91, EP 92, EP 93 and EP 94. This monitoring device shall be read and the results recorded once a day during the operation of the respective process units.

5. Specific Recordkeeping Requirements:

a. The permittee shall maintain records of the following information for the control devices or baghouses:

i. The operational procedures and preventive maintenance records.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

ii. Daily records of the pressure drop across the baghouse associated with EP 90, EP 91, EP 92, and EP 94 during all periods of operation.
iii. All maintenance activities performed at any control device or baghouse.

b. During all periods of operation, startup, shutdown, or malfunction of the baghouse. A daily log of the following information shall be kept:
   i. Whether any air emissions were visible from the facilities associated with the baghouse of concern.
   ii. Whether the visible emissions were normal for the process.
   If no abnormal visible emissions are observed, then no further observations or records are required. If abnormal visible emissions are observed, the permittee shall record the following information:
      1. The cause of the visible emissions.
      2. Any corrective actions taken.
      3. If performed, the dates, times, and results of each EPA Method 9 opacity reading.

c. The permittee shall record the occurrence, duration, cause, and any corrective action taken for each incident when the emission points are in operation but the associated control device or baghouse is not.

d. See **4. Specific Monitoring Requirements** (above) and **Section D, Source Wide Requirements** for additional recordkeeping requirements.

6. Specific Reporting Requirements:
See **Section D, Source Wide Requirements** for reporting requirements

7. Specific Control Equipment Operating Conditions:
The control devices or baghouses associated with EP 91, EP 92, EP 93, and EP 94 shall control particulate emissions and be operated in accordance with the manufacturer's specifications and/or standard operating procedures at all times the emission points are in use.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

GLAZE MIXING OPERATIONS:

EMISSION POINT	DESCRIPTION
26	Batching Station Control Equipment: Baghouse, Efficiency: 98.7% Modified: July 1998.

APPLICABLE REGULATIONS:
401 KAR 59:010, *New process operations*, which applies to emission units constructed on or after July 2, 1975.

401 KAR 63:020, *Potentially hazardous matter or toxic substances*, applies to each affected facility which emits or may emit potentially hazardous matter or toxic substances, provided such emissions are not elsewhere subject to the provisions of the administrative regulations of the Division for Air Quality.

Florida Tile Industries, Inc. has requested voluntary limits to preclude the applicability of 401 KAR 51:017, Prevention of Significant Deterioration of Air Quality. See **Section D, Source Wide Requirements**.

1. **Operating Limitations:**
   Pursuant to 401 KAR 63:020 Section 3, No owner or operator shall allow any affected facility to emit potentially hazardous matter or toxic substances in such quantities or duration as to be harmful to the health and welfare of humans, animals and plants.

2. **Emission Limitations:**
   a. Pursuant to 401 KAR 59:010, Appendix A, the emissions of particulate matter for each respective emission point shall not exceed the allowable rate limit as calculated by the following equations using the process weight rate (in units of tons/hr).

      For process rates up to 1,000 lbs/hr: $E = 2.34$
      For process rates up to 60,000 lbs/hr: $E = 3.59\ P^{0.62}$
      For process rates in excess of 60,000 lbs/hr: $E = 17.31\ P^{0.16}$

      For the equations: E = rate of emission in lb/hr and P = process weight rate in tons/hr

      Compliance Demonstration Method:

      Compliance with the hourly emission limit shall be determined as follows:

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Hourly Emission Rate = [Monthly amount of material placed into the hopper (based on number of batches per month multiplied by standard batch weight) x Emission factor listed in Kentucky Emissions Inventory x (1 - efficiency of the control device) ÷ (Total hours of operation per month)]

b. Pursuant to 401 KAR 59:010, Section 3, no person shall cause, suffer, allow or permit any continuous emission into the open air from a control device or stack which is equal to or greater than twenty (20) percent opacity.

Compliance Demonstration Method:

Compliance with the opacity limits shall be determined as follows:

i. During periods of normal operation of the control devices or baghouses, no compliance demonstration is necessary.

ii. If any of the emission units associated with a control device or baghouse are operation during any period of malfunction of the associated control device or baghouse, the permittee shall determine compliance through maintenance records required by Item d under **5. Specific Recordkeeping Requirements** (below).

c. See **Section D, Source Wide Requirements**.

3. Testing Requirements:

a. Pursuant to 401 KAR 59:005, Section 2(2) and 401 KAR 50:045, Section 1, performance testing using the reference methods specified in 401 KAR 50:015 shall be conducted as required by the Division.

b. See **Section D, Source Wide Requirements** for additional testing requirements.

4. Specific Monitoring Requirements:

a. The permittee shall monitor and maintain records of the following parameters:

i. The monthly amount of material loaded into the batching station.

ii. The monthly hours of operation (hours operated/month) of the batching station. (Determined by the number of batches per month multiplied by the length of time required to load the weigh hopper and mill, based on records of batch numbers and standard loading times.)

b. The permittee shall:

i. Conduct daily observations of the visible emissions from EP 26. If visible emissions are observed, the permittee shall perform an EPA Method 9 opacity reading or document why such test is unable to be performed.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

ii. Conduct daily observations during all periods of startup, shutdown, or malfunction of any control devices or baghouses. If visible emissions are observed, the permittee shall perform an EPA Method 9 opacity reading immediately or document why such test is unable to be performed.

5. Specific Recordkeeping Requirements:

a. The permittee shall maintain records of the following information for the control device or baghouses:
   i. The operational procedures and preventive maintenance records.
   ii. Daily records of the pressure drop across the baghouse associated with EP 26 during all periods of operation.
   iii. All maintenance activities performed at any control device or baghouse.

b. During all periods of operation, startup, shutdown, or malfunction of the baghouse. A daily log of the following information shall be kept:
   i. Whether any air emissions were visible from the facilities associated with the baghouse of concern.
   ii. Whether the visible emissions were normal for the process.
   If no abnormal visible emissions are observed, then no further observations or records are required. If abnormal visible emissions are observed, the permittee shall record the following information:
      1. The cause of the visible emissions.
      2. Any corrective actions taken.
      3. If performed, the dates, times, and results of each EPA Method 9 opacity reading.

c. The permittee shall record the occurrence, duration, cause, and any corrective action taken for each incident when the emission points are in operation but the associated control device or baghouse is not.

d. See **4. Specific Monitoring Requirements** (above) and **Section D, Source Wide Requirements** for additional recordkeeping requirements.

6. Specific Reporting Requirements:

See **Section D, Source Wide Requirements** for reporting requirements

7. Specific Control Equipment Operating Conditions:

The control device or baghouse associated with EP 26 shall control particulate emissions and be operated properly in accordance with the manufacturer's specifications and/or standard operating procedures at all times the emission points are in use.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

LINE # 1:

EMISSION POINT	DESCRIPTION
19	Line # 1 Tile Presses: Presses # 11 & 12. Control Equipment: Baghouse, Efficiency: 98.7% Installed: July 1996.
32	Line # 1 Glaze Spray Booth: Booth # 11 Control Equipment: Wet Scrubber, Efficiency: 90% Installed: July 1996.
39	Line # 1 Roller Kiln: Kiln # 1. Control Equipment: None Installed: July 1996.
46	Line # 1 Glaze Spray Booth: Booth # 12. Control Equipment: Hydro-filter, Efficiency: 90% Installed: March 1997.
95	Press Hoppers above Presses # 11 & 12. Control Equipment: Bin Vent Filter Efficiency: 90% Installed: March 1997.
100	Line #1 Dry Glaze Booth. Control Equipment: Hydro-filter, Efficiency: 90% Installed: March 1997.

APPLICABLE REGULATIONS:

401 KAR 59:010, *New process operations*, applies to emission units constructed on or after July 2, 1975.

40 CFR 63, Subpart KKKKK, National Emission Standards for Hazardous Air Pollutants for Clay Ceramics Manufacturing, applies to existing, new, or reconstructed kilns at a clay ceramics manufacturing facility.

Florida Tile Industries, Inc. has requested voluntary limits to preclude the applicability of 401 KAR 51:017, Prevention of Significant Deterioration of Air Quality. See **Section D, Source Wide Requirements**.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

1. Operating Limitations:

Pursuant to 40 CFR 63, Subpart KKKKK, EP 39 shall minimize fuel-based HAP emissions by using natural gas, or equivalent, as the kiln fuel, except during periods of natural gas curtailment or supply interruption, as defined in 40 CFR 63.8665.

Compliance Demonstration Method:

The permittee shall maintain monthly records of the type and amount of fuel used in EP 39.

2. Emission Limitations:

a. Pursuant to 401 KAR 59:010, Appendix A, the emissions of particulate matter for each respective emission point shall not exceed the allowable rate limit as calculated by the following equations using the process weight rate (in units of tons/hr).

For process rates up to 1,000 lbs/hr: $E = 2.34$
For process rates up to 60,000 lbs/hr: $E = 3.59\ P^{0.62}$
For process rates in excess of 60,000 lbs/hr: $E = 17.31\ P^{0.16}$

For the equations: E = rate of emission in lb/hr and P = process weight rate in tons/hr

Compliance Demonstration Method:

Compliance with the hourly emission limit shall be determined as follows:

Hourly Emission Rate = [Monthly amount of material processed x Emission factor listed in Kentucky Emissions Inventory x (1 - efficiency of the control device) ÷ (Total hours of operation per month)]

b. Pursuant to 401 KAR 59:010, Section 3, no person shall cause, suffer, allow or permit any continuous emission into the open air from a control device or stack which is equal to or greater than twenty (20) percent opacity.

Compliance Demonstration Method:

Compliance with the opacity limits shall be determined as follows:

i. During periods of normal operation of the control devices or baghouses, no compliance demonstration is necessary.

ii. If any of the emission units associated with a control device or baghouse are in operation during any period of malfunction of the associated control device or baghouse, the permittee shall determine compliance through maintenance records required by Item d under **5. Specific Recordkeeping Requirements** (below).

c. See **Section D, Group Requirements for Kilns**.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

d. See **Section D, Source Wide Requirements**.

e. See **Section D, Group Requirements for Spray Booths**.

3. Testing Requirements:

a. Pursuant to 401 KAR 59:005, Section 2(2) and 401 KAR 50:045, Section 1, performance testing in accordance using the reference methods specified in 401 KAR 50:015 shall be conducted as required by the Division.

b. See **Section D, Source Wide Requirements** and **Group Requirements for Kilns** for additional testing requirements.

4. Specific Monitoring Requirements:

a. The permittee shall monitor and maintain records of the following parameters for EP 19:
   i. The monthly amount of material placed into each press.
   ii. The monthly hours of operation (hours operated/month) of each press.

b. The permittee shall monitor and maintain records of the following parameters for EP 32, EP 46 and EP 100:
   i. The monthly amount of glaze used in each spray booth.
   ii. The monthly hours of operation (hours operated/month) of each booth (based on the amount of glaze used and the application rate).

c. The permitee shall:
   i. Install, calibrate, maintain, and operate according to the manufacturer's specifications a monitoring device to determine the static pressure drop across the baghouse associated with EP 19. This monitoring device shall be read and the results recorded once a day during the operation of the respective process unit.
   ii. Conduct daily observations of the visible emissions from EP 95. If visible emissions are observed, the permittee shall perform an EPA Method 9 opacity reading or document why such test is unable to be performed.
   iii. Conduct daily observations during all periods of startup, shutdown, or malfunction of any control devices or baghouses. If visible emissions are observed, the permittee shall perform an EPA Method 9 opacity reading immediately or document why such test is unable to be performed.

d. See **Section D, Group Requirements for Kilns,** for additional monitoring requirements.

5. Specific Recordkeeping Requirements:

a. The permittee shall maintain records of the following information for the control devices or baghouses:
   i. The operational procedures and preventive maintenance records.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

ii. Daily records of the pressure drop across the baghouse associated with EP 19 during all periods of operation.
iii. All maintenance activities performed at any control device or baghouse.

b. During all periods of operation, startup, shutdown, or malfunction of any control devices or baghouses. A daily log of the following information shall be kept:
   i. Whether any air emissions were visible from the facilities associated with the control device or baghouse of concern.
   ii. Whether the visible emissions were normal for the process.
   If no abnormal visible emissions are observed, then no further observations or records are required. If abnormal visible emissions are observed, the permittee shall record the following information:
      1. The cause of the visible emissions.
      2. Any corrective actions taken.
      3. If performed, the dates, times, and results of each EPA Method 9 opacity reading.

c. The permittee shall record the occurrence, duration, cause, and any corrective action taken for each incident when the emission points are in operation but the associated control device or baghouse is not.

d. See **4. Specific Monitoring Requirements** (above), **Section D, Source Wide Requirements**, and **Section D, Group Requirements for Kilns** for additional recordkeeping requirements.

6. Specific Reporting Requirements:
See **Section D, Source Wide Requirements** and **Group Requirements for Kilns** for reporting requirements.

7. Specific Control Equipment Operating Conditions:
The control devices or baghouses associated with EP 19, EP 32, EP 46, EP 95, and EP 100 shall control particulate emissions and be operated properly in accordance with the manufacturer's specifications and/or standard operating procedures at all times the emission points are in use.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

LINE # 2:

EMISSION POINT	DESCRIPTION
23	Line # 2 Tile Presses: Presses # 21 & # 22. Control Equipment: Baghouse, Efficiency: 98.7% Installed: August 1996.
42	Line # 2 Roller Kiln: Kiln # 2. Control Equipment: None Installed: August 1996.
47	Line # 2 Glaze Spray Booth: Booth # 21. Control Equipment: Wet Scrubber, Efficiency: 90% Installed: August 1996.
77	Line # 2 Glaze Spray Booth: Booth # 22. Control Equipment: Hydro-filter, Efficiency: 90% Installed: January 1997.
96	Press Hoppers above Presses # 21 & # 22. Control Equipment: Bin Vent Filter Efficiency: 98.7% Installed: August 1996.
101	Line # 2 Dry Glaze Booth Control Equipment: Hydro-filter, Efficiency: 90% Installed: September 2000.

APPLICABLE REGULATIONS:

401 KAR 59:010, *New process operations*, which applies to emission units constructed on or after July 2, 1975.

40 CFR 63, Subpart KKKKK, National Emission Standards for Hazardous Air Pollutants for Clay Ceramics Manufacturing, which applies to existing, new, or reconstructed kilns at a clay ceramics manufacturing facility.

Florida Tile Industries, Inc. has requested voluntary limits to preclude the applicability of 401 KAR 51:017, Prevention of Significant Deterioration of Air Quality. See **Section D, Source Wide Requirements**.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

1. Operating Limitations:

Pursuant to 40 CFR 63, Subpart KKKKK, EP 42 shall minimize fuel-based HAP emissions by using natural gas, or equivalent, as the kiln fuel, except during periods of natural gas curtailment or supply interruption, as defined in this subpart, 40 CFR 63.8555.

Compliance Demonstration Method:

The permittee shall maintain monthly records of the type and amount of fuel used in EP 42.

2. Emission Limitations:

a. Pursuant to 401 KAR 59:010, Appendix A, the emissions of particulate matter for each respective emission point shall not exceed the allowable rate limit as calculated by the following equations using the process weight rate (in units of tons/hr).

For process rates up to 1,000 lbs/hr: $E = 2.34$
For process rates up to 60,000 lbs/hr: $E = 3.59\ P^{0.62}$
For process rates in excess of 60,000 lbs/hr: $E = 17.31\ P^{0.16}$

For the equations: E = rate of emission in lb/hr and P = process weight rate in tons/hr

Compliance Demonstration Method:

Compliance with the hourly emission limit shall be determined as follows:
Hourly Emission Rate = [Monthly amount of material processed x Emission factor listed in Kentucky Emissions Inventory x (1 - efficiency of the control device) ÷ (Total hours of operation per month)]

b. Pursuant to 401 KAR 59:010, Section 3, no person shall cause, suffer, allow or permit any continuous emission into the open air from a control device or stack which is equal to or greater than twenty (20) percent opacity.

Compliance Demonstration Method:

Compliance with the opacity limits shall be determined as follows:

i. During periods of normal operation of the control devices or baghouses, no compliance demonstration is necessary.
ii. If any of the emission units associated with a control device or baghouse are in operation during any period of malfunction of the associated control device or baghouse, the permittee shall determine compliance through maintenance records required by Item d under **5. Specific Recordkeeping Requirements** (below).

c. See **Section D, Group Requirements for Kilns**.

d. See **Section D, Source Wide Requirements**.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

e. See **Section D, Group Requirements for Spray Booths**.

3. Testing Requirements:

a. Pursuant to 401 KAR 59:005, Section 2(2) and 401 KAR 50:045, Section 1, performance testing using the reference methods specified in 401 KAR 50:015 shall be conducted as required by the Division.

b. See **Section D, Source Wide Requirements** and **Group Requirements for Kilns** for additional testing requirements.

4. Specific Monitoring Requirements:

a. The permittee shall monitor and maintain records of the following parameters for EP 23:
   i. The monthly amount of material placed into each press.
   ii. The monthly hours of operation (hours operated/month) of each press.

b. The permittee shall monitor and maintain records of the following parameters for EP 47, EP 77, and EP 101:
   i. The monthly amount of glaze used in each spray booth.
   ii. The monthly hours of operation (hours operated/month) of each spray booth (based on the amount of glaze used and the application rate).

c. The permittee shall:
   i. Install, calibrate, maintain, and operate according to the manufacturer's specifications a monitoring device to determine the static pressure drop across the baghouse associated with EP 23. These monitoring devices shall be read and the results recorded once a day during the operation of the respective process unit.
   ii. Conduct daily observations of the visible emissions from EP 96. If visible emissions are observed, the permittee shall perform an EPA Method 9 opacity reading or document why such test is unable to be performed.
   iii. Conduct daily observations during all periods of startup, shutdown, or malfunction of any control devices or baghouses. If visible emissions are observed, the permittee shall perform an EPA Method 9 opacity reading immediately or document why such test is unable to be performed.

d. See **Section D, Group Requirements for Kilns** for additional monitoring requirements.

5. Specific Recordkeeping Requirements:

a. The permittee shall maintain records of the following information for the control devices or baghouses:
   i. The operational procedures and preventive maintenance records.
   ii. Daily records of the pressure drop across the baghouse associated with EP 23 during all periods of operation.
   iii. All maintenance activities performed at any control device or baghouse.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

b. During all periods of operation, startup, shutdown, or malfunction of any control devices or baghouses. A daily log of the following information shall be kept:
   i. Whether any air emissions were visible from the facilities associated with the control device or baghouse of concern.
   ii. Whether the visible emissions were normal for the process.
   If no abnormal visible emissions are observed, then no further observations or records are required. If abnormal visible emissions are observed, the permittee shall record the following information:
      1. The cause of the visible emissions.
      2. Any corrective actions taken.
      3. If performed, the dates, times, and results of each EPA Method 9 opacity reading.

c. The permittee shall record the occurrence, duration, cause, and any corrective action taken for each incident when the emission points are in operation but the associated control device or baghouse is not.

d. See **4. Specific Monitoring Requirements** (above), **Section D, Source Wide Requirements**, and **Section D, Group Requirements for Kilns** for additional recordkeeping requirements.

6. Specific Reporting Requirements:
See **Section D, Source Wide Requirements** and **Group Requirements for Kilns** for reporting requirements.

7. Specific Control Equipment Operating Conditions:
The control devices or baghouses associated with EP 23, EP 47, EP 77, EP 96, and EP 101 shall control particulate emissions and be operated properly in accordance with the manufacturer's specifications and/or standard operating procedures at all times the emission points are in use.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

LINE # 3:

EMISSION POINT	DESCRIPTION
24	Line # 3 Tile Presses: Presses # 31, # 32, and # 33. Control Equipment: Baghouse, Efficiency: 98.7% Installed: February 1971.
40	Line # 3 Tunnel Kiln: Kiln # 3. Control Equipment: None Installed: 1971.
48	Line # 3 Glaze Spray Booth: Booth # 31. Control Equipment: Dust Collector Efficiency: 98.7% Installed: January 1997.
51	Line # 3 Glaze Spray Booth: Booth # 32. Control Equipment: Baghouse, Efficiency: 98.7% Installed: June 1987.
97	Press Hoppers above Presses # 31, # 32, and # 33. Control Equipment: Bin Vent Filter Efficiency: 98.7% Installed: August 1996.

APPLICABLE REGULATIONS:
401 KAR 59:010, *New process operations*, which applies to emission units constructed on or after July 2, 1975.

401 KAR 61:020, *Existing Process operations*, which applies to emission units constructed before July 2, 1975..

40 CFR 63, Subpart KKKKK, National Emission Standards for Hazardous Air Pollutants for Clay Ceramics Manufacturing, which applies to existing, new, or reconstructed kilns at a clay ceramics manufacturing facility.

Florida Tile Industries, Inc. has requested voluntary limits to preclude the applicability of 401 KAR 51:017, Prevention of Significant Deterioration of Air Quality. See **Section D, Source Wide Requirements**.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

1. **Operating Limitations:**
Pursuant to 40 CFR 63, Subpart KKKKK, EP 40 shall minimize fuel-based HAP emissions by using natural gas, or equivalent, as the kiln fuel, except during periods of natural gas curtailment or supply interruption, as defined in this subpart, 40 CFR 63.8555.

Compliance Demonstration Method

The permittee shall maintain monthly records of the type and amount of fuel used in EP 40.

2. **Emission Limitations:**

a. Pursuant to 401 KAR 59:010, Appendix A, the emissions of particulate matter for EP 48, EP 51 and EP 97 shall not exceed the allowable rate limit as calculated by the following equations using the process weight rate (in units of tons/hr).

For process rates up to 1,000 lbs/hr: $E = 2.34$
For process rates up to 60,000 lbs/hr: $E = 3.59\ P^{0.62}$
For process rates in excess of 60,000 lbs/hr: $E = 17.31\ P^{0.16}$

For the equations: E = rate of emission in lb/hr and P = process weight rate in tons/hr

Pursuant to 401 KAR 59:010, Section 3, no person shall cause, suffer, allow or permit any continuous emission into the open air from a control device or stack associated with EP 24, EP 48 and EP 51, which is equal to or greater than twenty (20) percent opacity.

b. Pursuant to 401 KAR 61:020, Appendix A, the emissions of particulate matter for EP 24 and EP 40 shall not exceed the allowable rate limit as calculated by the following equations using the process weight rate (in units of tons/hr).

For process rates up to 1,000 lbs/hr: $E = 2.58$
For process rates up to 60,000 lbs/hr: $E = 4.10\ P^{0.67}$
For process rates in excess of 60,000 lbs/hr: $E = 55.0\ P^{0.11} - 40$

For the equations: E = rate of emission in lb/hr and P = process weight rate in tons/hr

Compliance Demonstration Method:

Compliance with the hourly emission limit shall be determined as follows:

Hourly Emission Rate = [Monthly amount of material processed x Emission factor listed in Kentucky Emissions Inventory x (1 - efficiency of the control device) ÷ (Total hours of operation per month)]

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

c. Pursuant to 401 KAR 61:020, Section 3, no person shall cause, suffer, allow or permit any continuous emission into the open air from a control device or stack associated with EP 40, which is equal to or greater than forty (40) percent opacity.

Compliance Demonstration Method:

Compliance with the opacity limits shall be determined as follows:

i. During periods of normal operation of the control devices or baghouses, no compliance demonstration is necessary.

ii. If any of the emission units associated with a control device or baghouse are in operation during any period of malfunction of the associated control device or baghouse, the permittee shall determine compliance through maintenance records required by Item d under **5. Specific Recordkeeping Requirements** (below).

d. See **Section D, Group Requirements for Kilns**.

e. See **Section D, Source Wide Requirements**.

f. See **Section D, Group Requirements for Spray Booths**.

3. Testing Requirements:

a. Pursuant to 401 KAR 59:005, Section 2(2) and 401 KAR 50:045, Section 1, performance testing using the reference methods specified in 401 KAR 50:015 shall be conducted as required by the Division.

b. See **Section D, Source Wide Requirements** and **Group Requirements for Kilns** for additional testing requirements.

4. Specific Monitoring Requirements:

a. The permittee shall monitor and maintain records of the following parameters for EP 24:

i. The monthly amount of material placed into each press.

ii. The monthly hours of operation (hours operated/month) of each press.

b. The permittee shall monitor and maintain records of the following parameters for EP 48, and EP 51:

i. The monthly amount of glaze used in each booth.

ii. The monthly hours of operation (hours operated/month) of each booth (based on the amount of glaze used and the application rate).

c. The permittee shall:

i. Install, calibrate, maintain, and operate according to the manufacturer's specifications a monitoring device to determine the static pressure drop across the baghousse associated with EP 24, EP 48, and EP 51. These monitoring devices shall be read and the results recorded once a day during the operation of the respective process unit.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

ii. Conduct daily observations of the visible emissions from EP 97. If visible emissions are observed, the permittee shall perform an EPA Method 9 opacity reading or document why such test is unable to be performed.
iii. Conduct daily observations during all periods of startup, shutdown, or malfunction of any control devices or baghouses. If visible emissions are observed, the permittee shall perform an EPA Method 9 opacity reading immediately or document why such test is unable to be performed.

d. See **Section D, Group Requirements for Kilns** for additional monitoring requirements.

5. Specific Recordkeeping Requirements:

a. The permittee shall maintain records of the following information for the control devices or baghouses:
i. The operational procedures and preventive maintenance records.
ii. Daily records of the pressure drop across the baghouses associated with EP 24, EP 48, and EP 51 during all periods of operation.
iii. All maintenance activities performed at any control device or baghouse.

b. During all periods of operation, startup, shutdown, or malfunction of any control devices or baghouses. A daily log of the following information shall be kept:
i. Whether any air emissions were visible from the facilities associated with the control device or baghouse of concern.
ii. Whether the visible emissions were normal for the process.
If no abnormal visible emissions are observed, then no further observations or records are required. If abnormal visible emissions are observed, the permittee shall record the following information:
1. The cause of the visible emissions.
2. Any corrective actions taken.
3. If performed, the dates, times, and results of each EPA Method 9 opacity reading.

c. The permittee shall record the occurrence, duration, cause, and any corrective action taken for each incident when the emission points are in operation but the associated control device or baghouse is not.

d. See **4. Specific Monitoring Requirements** (above), **Section D, Source Wide Requirements**, and **Section D, Group Requirements for Kilns** for additional recordkeeping requirements.

6. Specific Reporting Requirements:

See **Section D, Source Wide Requirements** and **Group Requirements for Kilns** for reporting requirements.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

7. **Specific Control Equipment Operating Conditions:**
   The control devices or baghouses associated with EP 24, EP 48, EP 51, and EP 97 shall control particulate emissions and be operated properly in accordance with manufacturers' specifications and/or standard operating procedures at all times the emission points are in use.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

LINE # 4:

EMISSION POINT	DESCRIPTION
50	Line # 4 Glaze Spray Booth: Booth # 41. Control Equipment: Baghouse, Efficiency: 98.7% Installed: June 1987
60	Line # 4 Tile Presses: Presses # 41, # 42 & # 43. Control Equipment: Baghouse, Efficiency: 98.7% Installed October 1987
64	Line # 4 Glaze Spray Booth: Booth # 42. Control Equipment: Baghouse, Efficiency: 98.7% Installed: June 1987.
65	Line # 4 Glaze Spray Booth: Booth # 43. Control Equipment: Baghouse, Efficiency: 98.7% Installed: June 1987.
70	Line # 4 Tunnel Kiln: Kiln # 4 Control Equipment: None Installed: June 1987.
80	Line # 4 Tile Press # 44 Control Equipment: Baghouse, Efficiency: 98.7% Installed: June 2003.
81	Line # 4 Tile Press # 45 Control Equipment: Baghouse, Efficiency: 98.7% Installed: June 2003.
85	Line #4 Glaze Spray Booth: Booth # 44. Control Equipment: Baghouse, Efficiency: 98.7% Proposed: 2004.
86	Line # 4 Multi-Spray Booth: Booth # 45. Control Equipment: Baghouse, Efficiency: 98.7% Proposed: 2004.
98	Press Hoppers above Presses # 41, # 42, # 43, # 44, & # 45 Control Equipment: Bin Vent Filter Efficiency: 98.7% Installed: August 1996.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

APPLICABLE REGULATIONS:
401 KAR 59:010, *New process operations*, applies to emission units constructed on or after July 2, 1975.

40 CFR 63, Subpart KKKKK, National Emission Standards for Hazardous Air Pollutants for Clay Ceramics Manufacturing, applies to existing, new, or reconstructed kilns at a clay ceramics manufacturing facility.

Florida Tile Industries, Inc. has requested voluntary limits to preclude the applicability of 401 KAR 51:017, Prevention of Significant Deterioration of Air Quality. See **Section D, Source Wide Requirements** .

1. **Operating Limitations:**
   Pursuant to 40 CFR 63, Subpart KKKKK, EP 70 shall minimize fuel-based HAP emissions by using natural gas, or equivalent, as the kiln fuel, except during periods of natural gas curtailment or supply interruption, as defined in this subpart, 40 CFR 63.8555.

   Compliance Demonstration Method:
   The permittee shall maintain monthly records of the type and amount of fuel used in EP 70.

   See **Section D, Group Requirements for Kilns**.

2. **Emission Limitations:**
   a. Pursuant to 401 KAR 59:010, Appendix A, the emissions of particulate matter for each respective emission point shall not exceed the allowable rate limit as calculated by the following equations using the process weight rate (in units of tons/hr).

      For process rates up to 1,000 lbs/hr: $E = 2.34$
      For process rates up to 60,000 lbs/hr: $E = 3.59\ P^{0.62}$
      For process rates in excess of 60,000 lbs/hr: $E = 17.31\ P^{0.16}$

      For the equations: E = rate of emission in lb/hr and P = process weight rate in tons/hr

      Compliance Demonstration Method:

      Compliance with the hourly emission limit shall be determined as follows:

      Hourly Emission Rate = [Monthly processing rate x Emission factor listed in Kentucky Emissions Inventory x (1 - efficiency of the control device) / (Total hours of operation per month)]

   b. Pursuant to 401 KAR 59:010, Section 3, no person shall cause, suffer, allow or permit any continuous emission into the open air from a control device or stack which is equal to or greater than twenty (20) percent opacity.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Compliance Demonstration Method:

Compliance with the opacity limits shall be determined as follows:

i. During periods of normal operation of the control devices or baghouses, no compliance demonstration is necessary.

ii. If any of the emission units associated with a control device or baghouse are in operation during any period of malfunction of the associated control device or baghouse, the permittee shall determine compliance through maintenance of the records required by Item d under **5. Specific Recordkeeping Requirements** (below).

c. See **Section D, Group Requirements for Kilns**.

d. See **Section D, Source Wide Requirements**.

e. See **Section D, Group Requirements for Spray Booths**.

3. Testing Requirements:

a. Pursuant to 401 KAR 59:005, Section 2(2) and 401 KAR 50:045, Section 1, performance testing using the reference methods specified in 401 KAR 50:015 shall be conducted as required by the Division.

b. See **Section D, Source Wide Requirements** and **Group Requirements for Kilns** for additional testing requirements.

4. Specific Monitoring Requirements:

a. The permittee shall monitor and maintain records of the following parameters for EP 60, EP 80 and EP 81:

i. The monthly amount of material placed into each press.

ii. The monthly hours of operation (hours operated/month) of each press.

b. The permittee shall monitor and maintain records of the following parameters for EP 50, EP 64, EP 65, EP 85, and EP 86:

i. The monthly amount of glaze used in each spray booth.

ii. The monthly hours of operation (hours operated/month) of each spray booth (based on the amount of glaze used and the application rate).

c. The permittee shall:

i. Install, calibrate, maintain, and operate according to the manufacturer's specifications a monitoring device to determine the static pressure drop across the baghouses associated with EP 50, EP 60, EP 64, EP 65, EP 70, EP 80, EP 81, EP 85 and EP 86. These monitoring devices shall be read and the results recorded once a day during the operation of the respective process unit.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

ii. Conduct daily observations of the visible emissions from EP 98. If visible emissions are observed, the permittee shall perform an EPA Method 9 opacity reading or document why such test is unable to be performed.
iii. Conduct daily observations during all periods of startup, shutdown, or malfunction of any control devices or baghouses. If visible emissions are observed, the permittee shall perform an EPA Method 9 opacity reading immediately or document why such test is unable to be performed.

d. See **Section D, Group Requirements for Kilns** for additional monitoring requirements.

5. Specific Recordkeeping Requirements:

a. The permittee shall maintain records of the following information for the control device or baghouses:
i. The operational procedures and preventive maintenance records.
ii. Daily records of the pressure drop across the baghouses associated with EP 50, EP 60, EP 64, EP 65, EP 80, EP 81, EP 85 and EP 86 during all periods of operation.
iii. All maintenance activities performed at any control device or baghouse.

b. During all periods of operation, startup, shutdown, or malfunction of any control devices or baghouses. A daily log of the following information shall be kept:
i. Whether any air emissions were visible from the facilities associated with the control device or baghouse of concern.
ii. Whether the visible emissions were normal for the process.
If no abnormal visible emissions are observed, then no further observations or records are required. If abnormal visible emissions are observed, the permittee shall record the following information:
1. The cause of the visible emissions.
2. Any corrective actions
3. If performed, the dates, times, and results of each EPA Method 9 opacity reading.

c. The permittee shall record the occurrence, duration, cause, and any corrective action taken for each incident when the emission points are in operation but the associated control device or baghouse is not.

d. See **4. Specific Monitoring Requirements** (above), **Section D, Source Wide Requirements**, and **Section D, Group Requirements for Kilns** for additional recordkeeping requirements.

6. Specific Reporting Requirements:

See **Section D, Source Wide Requirements** and **Group Requirements for Kilns** for reporting requirements.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

7. Specific Control Equipment Operating Conditions:

The control devices or baghouses associated with EP 50, EP 60, EP 64, EP 65, EP 80, EP 81, EP 85, EP 86 and EP 98 shall control particulate emissions and be operated properly in accordance with the manufacturer's specifications and/or standard operating procedures at all times the emission points are in use.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

LINE # 5:

EMISSION POINT	DESCRIPTION
25	Line # 5 Tile Presses: Presses # 51 & # 52. Control Equipment: Baghouse, Efficiency: 98.7% Installed: October 1995.
29	Line # 5 Roller Kiln: Kiln # 5. Control Equipment: None Installed: October 1995.
33	Line # 5 Glaze Spray Booth: Booth # 51. Control Equipment: Wet Scrubber Efficiency: 98.7% Installed: October 1995.
37	Line # 5 Glaze Spray Booth: Booth # 52 Control Equipment: Wet Scrubber Efficiency: 98.7% Installed: March 1997.
99	Press Hoppers above Presses # 51 & # 52 Control Equipment: Bin Vent Filter Efficiency: 98.7% Installed: August 1996.
102	Line 5 Dry Glaze Booth Control Equipment: Hydro-filter, Efficiency: 90% Installed: August 2003

APPLICABLE REGULATIONS:

401 KAR 59:010, *New process operations*, which applies to emission units constructed on or after July 2, 1975.

40 CFR 63, Subpart KKKKK, National Emission Standards for Hazardous Air Pollutants for Clay Ceramics Manufacturing, which applies to existing, new, or reconstructed kilns at a clay ceramics manufacturing facility.

Florida Tile Industries, Inc. has requested voluntary limits to preclude the applicability of 401 KAR 51:017, Prevention of Significant Deterioration of Air Quality. See **Section D, Source Wide Requirements.**

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

1. Operating Limitations:

Pursuant to 40 CFR 63, Subpart KKKKK, EP 29 shall minimize fuel-based HAP emissions by using natural gas, or equivalent, as the kiln fuel, except during periods of natural gas curtailment or supply interruption, as defined in this subpart, 40 CFR 63.8555.

Compliance Demonstration Method:

The permittee shall maintain monthly records of the type and amount of fuel used in EP 29.

See **Section D, Group Requirements for Kilns**.

2. Emission Limitations:

a. Pursuant to 401 KAR 59:010, Appendix A, the emissions of particulate matter for each respective emission point shall not exceed the allowable rate limit as calculated by the following equations using the process weight rate (in units of tons/hr).

For process rates up to 1,000 lbs/hr: $E = 2.34$
For process rates up to 60,000 lbs/hr: $E = 3.59\ P^{0.62}$
For process rates in excess of 60,000 lbs/hr: $E = 17.31\ P^{0.16}$

For the equations: E = rate of emission in lb/hr and P = process weight rate in tons/hr

Compliance Demonstration Method:

Compliance with the hourly emission limit shall be determined as follows:

Hourly Emission Rate = [Monthly amount of material processed x Emission factor listed in Kentucky Emissions Inventory x (1 - efficiency of the control device) / (Total hours of operation per month)]

b. Pursuant to 401 KAR 59:010, Section 3, no person shall cause, suffer, allow or permit any continuous emission into the open air from a control device or stack which is equal to or greater than twenty (20) percent opacity.

Compliance Demonstration Method:

Compliance with the opacity limits shall be determined as follows:

i. During periods of normal operation of the control devices or baghouses, no compliance demonstration is necessary.
ii If any of the emission units associated with a control device or baghouse are in operation during any period of malfunction of the associated control device or baghouse, the permittee shall determine compliance through maintenance of the records required by Item d under **5. Specific Recordkeeping Requirements** (below).

c. See **Section D, Group Requirements for Kilns**.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

d. See **Section D, Source Wide Requirements**.

e. See **Section D, Group Requirements for Spray Booths**.

3. Testing Requirements:

a. Pursuant to 401 KAR 59:005, Section 2(2) and 401 KAR 50:045, Section 1, performance testing using the reference methods specified in 401 KAR 50:015 shall be conducted as required by the Division.

b. See **Section D, Source Wide Requirements** and **Group Requirements for Kilns** for additional testing requirements.

4. Specific Monitoring Requirements:

a. The permittee shall monitor and maintain records of the following parameters for EP 25:
   i. The monthly amount of material placed into each press.
   ii. The monthly hours of operation (hours operated/month) of each press.

b. The permittee shall monitor and maintain records of the following parameters for EP 33, EP 37, and EP 102:
   i. The monthly amount of glaze used in each booth.
   ii. The monthly hours of operation (hours operated/month) of each booth (based on the amount of glaze used and the application rate).

c. The permittee shall:
   i. Install, calibrate, maintain, and operate according to the manufacturer's specifications a monitoring device to determine the static pressure drop across the baghouse associated with EP 25. This monitoring device shall be read and the results recorded once a day during the operation of the respective process unit.
   ii. Conduct daily observations of the visible emissions from EP 99. If visible emissions are observed, the permittee shall perform an EPA Method 9 opacity reading or document why such test is unable to be performed.
   iii. Conduct daily observations during all periods of startup, shutdown, or malfunction of any control devices or baghouses. If visible emissions are observed, the permittee shall perform an EPA Method 9 opacity reading immediately or document why such test is unable to be performed.

d. See **Section D, Group Requirements for Kilns** for additional testing requirements.

5. Specific Recordkeeping Requirements:

a. The permittee shall maintain records of the following information for the control device or baghouses:
   i. The operational procedures and preventive maintenance records.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

ii. Daily records of the pressure drop across the control device or baghouse during all periods of operation.
iii. All maintenance activities performed at any control device or baghouse.

b. During all periods of operation, startup, shutdown, or malfunction of any control devices or baghouses. A daily log of the following information shall be kept:
   i. Whether any air emissions were visible from the facilities associated with the control device or baghouse of concern.
   ii. Whether the visible emissions were normal for the process.
   If no abnormal visible emissions are observed, then no further observations or records are required. If abnormal visible emissions are observed, the permittee shall record the following information:
      1. The cause of the visible emissions.
      2. Any corrective actions taken.
      3. If performed, the dates, times, and results of each EPA Method 9 opacity reading.

c. The permittee shall record the occurrence, duration, cause, and any corrective action taken for each incident when the emission points are in operation but the associated control device or baghouse is not.

d. See **4. Specific Monitoring Requirements** (above), **Section D, Source Wide Requirements**, and **Section D, Group Requirements for Kilns** for additional recordkeeping requirements.

6. Specific Reporting Requirements:
See **Section D, Source Wide Requirements** and **Group Requirements for Kilns** for reporting requirements.

7. Specific Control Equipment Operating Conditions:
The control devices or baghouses associated with EP 25, EP 33, EP 37, EP 99 and EP 100 shall control particulate emissions and be operated properly in accordance with the manufacturer's specifications and/or standard operating procedures at all times the emission points are in use.

SECTION C – INSIGNIFICANT ACTIVITIES

The following listed activities have been determined to be insignificant activities for this source pursuant to 401 KAR 52:020, Section 6. While these activities are designated as insignificant the permittee must comply with the applicable regulation. These are insignificant emission units, therefore no further monitoring is required.

	Description	Generally Applicable Regulation
1.	Line # 1 Tile Dryer: Dryer # 11.	NA
2.	Line # 1 Tile Brush: Brush # 11.	NA
3.	Line # 2 Tile Brush: Brush # 21.	NA
4.	Line # 3 Tile Brush: Brush # 31.	NA
5.	Six Large Ball Mills.	NA
6.	Small Ball Mill.	NA
7.	Line # 4 Tile Brush: Brush # 41.	NA
8.	Line # 5 Tile Brush: Brush # 55.	NA
9.	Line # 5 Tile Dryer: Dryer # 51.	NA
10.	Line # 2 Tile Dryer: Dryer # 21.	NA
11.	Line # 3 Tile Heaters.	NA
12.	Line # 4 Tile Heaters.	NA
13.	Forniker Kiln.	NA
14.	10,000-gallon diesel fuel storage tank (above ground)	NA
15.	2000-gallon used oil storage tank (above ground)	NA
16.	250-gallon virgin oil tank (above ground)	NA
17.	500-gallon mineral spirits tank (above ground)	NA
18.	Storage tanks for waste water treatment chemicals	NA
19.	LPG tanks (in excess of 30 psig)	NA

SECTION C – INSIGNIFICANT ACTIVITIES (CONTINUED)

	Description	Generally Applicable Regulation
20.	LPG tank boiler	NA
21.	Natural gas distribution piping (< 60,000 ft^3/yr)	NA
22.	Backup generators	NA
23.	Brazing, soldering, welding equipment, and cutting torches related to manufacturing and maintenance construction	NA
24.	Cold cleaners with non-halogenated solvent	NA
25.	Lab fume hoods and vents for bench-scale physical and chemical analysis	NA
26.	Research and Development facilities, quality control testing facilities and/or small pilot projects not making significant contributions to product quality	NA
27.	Drilling, machining, sawing, surface grinding, sanding, polishing; ceramics, metals, glass, rubber (indoor)	NA
28.	Hot melt adhesive application equipment	NA
29.	Equipment used exclusively for mixing and blending water-based adhesives and coatings at ambient temp.	NA
30.	Screen printers	NA
31.	Compressors	NA
32.	Non-spray glaze applicators	NA
33.	Kiln Roller Cleaner	NA
34.	Vacuum Dust Collector System	NA
35.	Vacuum Dust Collector System. Installed July 1990	NA
36.	Rotary Printers	NA

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS

Source Wide Requirements

1. **Operating Limitations:** NA

2. **Emission Limitations:**
   a. To preclude the applicability of 401 KAR 51:017, Prevention of significant deterioration of air quality, no owner or operator shall cause to be discharged into the atmosphere on a sourcewide basis:
      i. Carbon monoxide (CO) emissions in excess of 225 tons per year based on a twelve (12) month rolling total and
      ii. Particulate matter (PM/PM10) emissions in excess of 225 tons per year based on a twelve (12) month rolling total.

   Compliance Demonstration Method:

   Every month the permittee shall calculate the total amount of PM/PM10 and CO emitted from all emission units listed in **Section B - Emission Points, Emission Units, Applicable Regulations, and Operating Conditions** using the following equation:

   $$\text{Monthly Emissions for PM/PM10 or CO} = \sum_{n=1}^{N} M_n \times EFn \times (1 - CEn)$$

   Where the monthly PM/PM10 or CO emissions are summed to include each material or release point for either PM/PM10 or CO. $\mathbf{M_n}$ is the monthly processing rate for each emission unit, $\mathbf{EF_n}$ is the emission factor as listed in Kentucky Emissions Inventory for that emission unit, **N** is the number of emission units for PM/PM10 or CO, and $\mathbf{CE_n}$ is the efficiency of the control device.

   To calculate the Consecutive Twelve (12) Month Total for PM/PM10 or CO, the monthly emission rate for PM/PM10 or CO shall then be summed according to the following equation:

   $$\text{Total Emissions for PM/PM10 or CO} = \sum_{n=1}^{12} \text{Monthly Emissions for PM/PM10 or CO}$$

   Where the monthly emissions for PM/PM10 or CO are summed over twelve (12) months.

3. **Testing Requirements:**
   a. Pursuant to 401 KAR 50:055, General compliance requirements, 401 KAR 59:005, Section 2(2) and 401 KAR 50:045, Section 1, performance testing using EPA Method 10 to determine carbon monoxide emissions shall be conducted within 60 days after issuance of the proposed permit.

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)

b. Pursuant to 401 KAR 50:055, General compliance requirements, 401 KAR 59:005, Section 2(2) and 401 KAR 50:045, Section 1, performance testing using EPA Method 5 or equivalent method incorporated by reference in 401 KAR 50:015 to determine particulate matter emissions shall be conducted within 60 days after issuance of the proposed permit.

4. Monitoring Requirements:
See requirements for individual emission points in **Section B, Emission Points, Emissions Units, Applicable Regulations, and Operating Conditions**

5. Recordkeeping Requirements:
a. Each month the annual emissions based on 12-month rolling total shall be calculated and recorded.

6. Reporting Requirements:
a. The semi-annual report submitted pursuant to Item 5, **Section F–Monitoring, Recordkeeping, and Reporting Requirements,** shall include a written report containing the 12-month total of CO and PM for each month, of the semi-annual reporting period. Until 12 months after issuance of the permit, the permittee shall report data only for those months that have elapsed since renewal of the permit.

b. See **Section F - Monitoring, Recordkeeping, and Reporting Requirements.**

7. Specific Control Equipment Operating Requirements: NA

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)

Group Requirements for Kilns:

These emission points are listed in **Section B - Emission Points, Emission Units, Applicable Regulations, and Operating Conditions** under their respective process lines and are listed here due to common limitations and requirements for emissions of gaseous fluorides as hydrogen fluoride for all kilns.

EMISSION POINT	DESCRIPTION
39	Roller Kiln Line 1: Kiln # 1. Control Equipment: None Installed: July 1996
42	Roller Kiln Line 2: Kiln # 2. Control Equipment: None Installed: August 1996
40	Tunnel Kiln Line 3: Kiln # 3. Control Equipment: None Installed: February 1971
70	Tunnel Kiln Line 4: Kiln # 4. Control Equipment: None Installed: June 1987
29	Roller Kiln Line 5: Kiln # 5. Control Equipment: None Installed: October 1995

Applicable Regulations:
401 KAR 53:010, *Ambient air quality standards*, for hydrogen fluoride emissions.

40 CFR 63, Subpart KKKKK, National Emission Standards for Hazardous Air Pollutants for Clay Ceramics Manufacturing, which applies to existing, new, or reconstructed kilns at a clay ceramics manufacturing facility.

1. Operating Limitations:

a. Pursuant to 40 CFR 63, Subpart KKKKK, each existing tunnel or roller kiln shall minimize fuel-based HAP emissions by using natural gas, or equivalent, as the kiln fuel, except during periods of natural gas curtailment or supply interruption, as defined in this subpart, 40 CFR 63.8555.

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)

Compliance Demonstration Method:

The permittee shall maintain monthly records of the type and amount of fuel used for each kiln.

b. The normal temperature in EP 29, EP 39, EP 40, EP 42, and EP 70 shall be 1145^{o} C (+/- 20 ^{o}C) for any consecutive three (3) hours during the operation of the units. An excursion is defined as any 12-hour period during which the temperature is above 1165^{o}C for more than 3 consecutive hours.

c. The normal cycle time, time required to pass through all stages of EP 29, EP 39, and EP 42, shall be 46 minutes (+/-9 minutes) during operation of the units. An excursion is defined as any 12-hour period during which the cycle time is above 55 minutes.

d. The normal cycle time, time required to pass through all stages of EP 40 and EP 70, shall be 24 hours (+/-6 hours) during the operation of the units. An excursion is defined as any 72-hour period during which the residence time is above 30 hours.

2. Emission Limitations:

a. Pursuant to 401 KAR 53:010, Ambient air quality standards, ambient concentrations of gaseous fluorides (HF) shall not exceed the following averages more than once per year:
   i. Maximum twelve-hour average: 3.68 ug/m3
   ii. Maximum twenty-four-hour average: 2.86 ug/m3

Compliance Demonstration Method:

i. Kilns 1, 2, 4 and 5:
See Item a. under **3. Testing Requirements** (below). After each respective kiln is stack tested and verified, a one time ambient air quality modeling shall be performed and submitted to the Division. Modeling shall be performed for all the HF emitting affected units to show off-site concentrations of gaseous fluorides as hydrogen fluoride due to all units is below the above listed standards.

ii. Kiln 3:
If kiln 3 is restarted, testing shall be performed as conditioned in testing requirements below and modeling shall be reevaluated for all the HF emitting units.

iii. The permittee shall comply with the ambient air quality standard specified under 401 KAR 53:010, Ambient air quality standards, Appendix A, by continuing to vent the hydrogen fluoride from EP 40 and EP 70 to the existing 140-ft stack and by operating EP 39, EP 43 and EP 29 in accordance with the specific operating conditions in **1. Operating Limitations** (above).

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)

3. Testing Requirements:

a. Pursuant to 401 KAR 50:055, General compliance requirements, 401 KAR 59:005, Section 2(2) and 401 KAR 50:045, Section 1, performance testing using Kentucky Method 130 specified in 401 KAR 50:015 shall be conducted on Kilns 1, 2, 4 and 5 within 180 days of permit issuance. Kiln 3 (EP 40) shall be stack tested within 180 days of startup if unit is restarted or as required by the Division.

b. Pursuant to Section VII 2. (1) of the policy manual of the Division for Air Quality as referenced by 401 KAR 50:016, Section 1. (1), at least one month prior to the date of the required performance test, the permittee shall complete and return a Compliance Test Protocol (Form DEP 6027) to the Division's Frankfort Central Office. Pursuant to 401 KAR 50:045, Section 5, the Division shall be notified of the actual test date at least ten (10) days prior to the test. The permittee shall furnish the Division for Air Quality's Frankfort Central Office with a written report of the results of such performance tests.

4. Monitoring Requirements:

The permittee shall monitor the following parameters on each kiln:

a. The processing rate in lbs/hr. For Kilns 1,2, and 5, processing rate is determined by kiln volume (number of square feet fired multiplied by 3 pounds per square foot) divided operating hours per shift. For Kilns 3 and 4, the processing rate is determined by kiln volume (number of kiln cars placed into the kiln multiplied by square feet of tile per car multiplied by 3 pounds per square foot) divided by operating hours per shift.

b. The kiln temperature in degrees C every 15 minutes.

c. The cycle time for EP 29, EP 39, and EP 42 in minutes.

d. The cycle time for EP 40 and EP 70 in minutes.

e. The type of fuel used.

5. Recordkeeping Requirements:

a. The permittee shall maintain records of the processing rate of tiles, kiln temperature, and cycle time for each respective kiln when each kiln is in operation.

b. The permittee shall maintain records of any excursion period for each kiln.

c. Pursuant to 40 CFR 63, Subpart KKKKK, the permittee, shall maintain records documenting:
   i. Use of natural gas, or an equivalent fuel, as the kiln fuel at all times except during periods of natural gas curtailment or supply interruption; and
   ii. Use of alternative fuel during periods of natural gas curtailment or supply interruptions.

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)

6. Reporting Requirements:

a. Excursions as defined in **4. Monitoring Requirements** (above), in accordance with **Section F – Monitoring, Recordkeeping, and Reporting Requirements**.

b. Pursuant to 40 CFR 63, Subpart KKKKK, if the permittee intends to use an alternative fuel, the permittee must submit:

i. Notification of alternative fuel use within 48 hours of declaration of a period of natural gas curtailment or supply interruption; and

ii. Report of alternative fuel use within 10 working days after terminating the use of the alternative fuel, as specified in Section 63.8635(g) of 40 CFR 63, Subpart KKKKK.

c. See **Section F - Monitoring, Recordkeeping, and Reporting Requirements**.

7. Specific Control Equipment Operating Requirements: NA

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)

Group Requirements for Spray Booths:

These emission points are listed in **Section B - Emission Points, Emission Units, Applicable Regulations, and Operating Conditions** under their respective process lines and are listed here due to common limitations and requirements for emissions of Zinc oxide.

EMISSION POINT	DESCRIPTION
32	Line # 1 Glaze Spray Booth: Booth # 11 Control Equipment: Wet Scrubber, Efficiency: 90% Installed: July 1996.
33	Line # 5 Glaze Spray Booth: Booth # 51. Control Equipment: Wet Scrubber Efficiency: 98.7% Installed: October 1995.
37	Line # 5 Glaze Spray Booth: Booth # 52 Control Equipment: Wet Scrubber Efficiency: 98.7% Installed: March 1997.
46	Line # 1 Glaze Spray Booth: Booth # 12. Control Equipment: Hydro-filter, Efficiency: 90% Installed: March 1997.
47	Line # 2 Glaze Spray Booth: Booth # 21. Control Equipment: Wet Scrubber, Efficiency: 90% Installed: August 1996.
48	Line # 3 Glaze Spray Booth: Booth # 31. Control Equipment: Dust Collector Efficiency: 98.7% Installed: January 1997.
51	Line # 3 Glaze Spray Booth: Booth # 32. Control Equipment: Baghouse, Efficiency: 98.7% Installed: June 1987.

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)

77	Line # 2 Glaze Spray Booth: Booth # 22. Control Equipment: Hydro-filter, Efficiency: 90% Installed: January 1997.
85	Line #4 Glaze Spray Booth: Booth # 44. Control Equipment: Baghouse, Efficiency: 98.7% Proposed: 2004.
86	Line # 4 Multi-Spray Booth: Booth # 45. Control Equipment: Baghouse, Efficiency: 98.7% Proposed: 2004.

APPLICABLE REGULATIONS:

401 KAR 63:020, *Potentially hazardous matter or toxic substances*, applies to each affected facility which emits or may emit potentially hazardous matter or toxic substances, provided such emissions are not elsewhere subject to the provisions of the administrative regulations of the Division for Air Quality.

1. **Operating Limitations:** NA
   Pursuant to 401 KAR 63:020 Section 3, No owner or operator shall allow any affected facility to emit potentially hazardous matter or toxic substances in such quantities or duration as to be harmful to the health and welfare of humans, animals and plants.

2. **Emission Limitations:** NA

3. **Testing Requirements:** NA

4. **Monitoring Requirements:** NA

5. **Recordkeeping Requirements:** NA

6. **Reporting Requirements:** NA
   See **Section F - Monitoring, Recordkeeping, and Reporting Requirements**.

7. **Specific Control Equipment Operating Requirements:** NA

SECTION E – SOURCE CONTROL EQUIPMENT REQUIREMENTS

Pursuant to 401 KAR 50:055, Section 2(5), at all times, including periods of startup, shutdown and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Division which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

SECTION F - MONITORING, RECORD KEEPING, AND REPORTING REQUIREMENTS

1. Pursuant to Section 1b (IV) 1 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26, when continuing compliance is demonstrated by periodic testing or instrumental monitoring, the permittee shall compile records of required monitoring information that include:
   a. Date, place as defined in this permit, and time of sampling or measurements;
   b. Analyses performance dates;
   c. Company or entity that performed analyses;
   d. Analytical techniques or methods used;
   e. Analyses results; and
   f. Operating conditions during time of sampling or measurement.

2. Records of all required monitoring data and support information, including calibrations, maintenance records, and original strip chart recordings, and copies of all reports required by the Division for Air Quality, shall be retained by the permittee for a period of five years and shall be made available for inspection upon request by any duly authorized representative of the Division for Air Quality [Sections 1b(IV) 2 and 1a(8) of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

3. In accordance with the requirements of 401 KAR 52:020 Section 3(1)h the permittee shall allow authorized representatives of the Cabinet to perform the following during reasonable times:
   a. Enter upon the premises to inspect any facility, equipment (including air pollution control equipment), practice, or operation;
   b. To access and copy any records required by the permit:
   c. Sample or monitor, at reasonable times, substances or parameters to assure compliance with the permit or any applicable requirements.

   Reasonable times are defined as during all hours of operation, during normal office hours; or during an emergency.

4. No person shall obstruct, hamper, or interfere with any Cabinet employee or authorized representative while in the process of carrying out official duties. Refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties.

5. Summary reports of any monitoring required by this permit, other than continuous emission or opacity monitors, shall be submitted to the Regional Office listed on the front of this permit at least every six (6) months during the life of this permit, unless otherwise stated in this permit. For emission units that were still under construction or which had not commenced operation at the end of the 6-month period covered by the report and are subject to monitoring requirements in this permit, the report shall indicate that no monitoring was performed during the previous six months because the emission unit was not in operation [Section 1b (V)1 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

SECTION F - MONITORING, RECORD KEEPING, AND REPORTING REQUIREMENTS (CONTINUED)

6. The semi-annual reports are due by January 30th and July 30th of each year. Data from the continuous emission and opacity monitors shall be reported to the Technical Services Branch in accordance with the requirements of 401 KAR 59:005, General Provisions, Section 3(3). All reports shall be certified by a responsible official pursuant to 401 KAR 52:020 Section 23. All deviations from permit requirements shall be clearly identified in the reports.

7. In accordance with the provisions of 401 KAR 50:055, Section 1 the owner or operator shall notify the Regional Office listed on the front of this permit concerning startups, shutdowns, or malfunctions as follows:
   a. When emissions during any planned shutdowns and ensuing startups will exceed the standards notification shall be made no later than three (3) days before the planned shutdown, or immediately following the decision to shut down, if the shutdown is due to events which could not have been foreseen three (3) days before the shutdown.
   b. When emissions due to malfunctions, unplanned shutdowns and ensuing startups are or may be in excess of the standards, notification shall be made as promptly as possible by telephone (or other electronic media) and shall submit written notice upon request.

8. The owner or operator shall report emission related exceedances from permit requirements including those attributed to upset conditions (other than emission exceedances covered by Section F.7. above) to the Regional Office listed on the front of this permit within 30 days. Other deviations from permit requirements shall be included in the semiannual report required by Section F.6 [Section 1b (V) 3, 4. of the Cabinet Provisions and Procedures for Issuing Title *V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

9. Pursuant to 401 KAR 52:020, Permits, Section 21, the permittee shall annually certify compliance with the terms and conditions contained in this permit, by completing and returning a Compliance Certification Form (DEP 7007CC) (or an alternative approved by the regional office) to the Regional Office listed on the front of this permit and the U.S. EPA in accordance with the following requirements:
   a. Identification of the term or condition;
   b. Compliance status of each term or condition of the permit;
   c. Whether compliance was continuous or intermittent;
   d. The method used for determining the compliance status for the source, currently and over the reporting period.
   e. For an emissions unit that was still under construction or which has not commenced operation at the end of the 12-month period covered by the annual compliance certification, the permittee shall indicate that the unit is under construction and that compliance with any applicable requirements will be demonstrated within the timeframes specified in the permit.

SECTION F - MONITORING, RECORD KEEPING, AND REPORTING REQUIREMENTS (CONTINUED)

f. The certification shall be postmarked by January 30th of each year. Annual compliance certifications should be mailed to the following addresses:

Division for Air Quality
Frankfort Regional Office
643 Teton Trail, STE B
Frankfrort, KY 40601-1758

U.S. EPA Region IV
Air Enforcement Branch
Atlanta Federal Center
61 Forsyth St.
Atlanta, GA 30303-8960

Division for Air Quality
Central Files
803 Schenkel Lane
Frankfort, KY 40601

10. In accordance with 401 KAR 52:020, Section 22, the permittee shall provide the Division with all information necessary to determine its subject emissions within thirty (30) days of the date the KYEIS emission survey is mailed to the permittee.

11. Pursuant to Section VII (3) of the policy manual of the Division for Air Quality as referenced in 401 KAR 50:016, Section 1(1), results of performance test(s) required by the permit shall be submitted to the Division by the source or its representative within forty-five days after the completion of the fieldwork.

SECTION G – GENERAL PROVISIONS

(a) General Compliance Requirements

1. The permittee shall comply with all conditions of this permit. Noncompliance shall be a violation of 401 KAR 52:020 and of the Clean Air Act and is grounds for enforcement action including but not limited to termination, revocation and reissuance, revision or denial of a permit [Section 1a, 3 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020 Section 26].

2. The filing of a request by the permittee for any permit revision, revocation, reissuance, or termination, or of a notification of a planned change or anticipated noncompliance, shall not stay any permit condition [Section 1a, 6 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

3. This permit may be revised, revoked, reopened and reissued, or terminated for cause in accordance with 401 KAR 52:020, Section 19. The permit will be reopened for cause and revised accordingly under the following circumstances:
   a. If additional applicable requirements become applicable to the source and the remaining permit term is three (3) years or longer. In this case, the reopening shall be completed no later than eighteen (18) months after promulgation of the applicable requirement. A reopening shall not be required if compliance with the applicable requirement is not required until after the date on which the permit is due to expire, unless this permit or any of its terms and conditions have been extended pursuant to 401 KAR 52:020, Section 12;
   b. The Cabinet or the U. S. EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements;
   c. The Cabinet or the U. S. EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit;

   Proceedings to reopen and reissue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Reopenings shall be made as expeditiously as practicable. Reopenings shall not be initiated before a notice of intent to reopen is provided to the source by the Division, at least thirty (30) days in advance of the date the permit is to be reopened, except that the Division may provide a shorter time period in the case of an emergency.

4. The permittee shall furnish information upon request of the Cabinet to determine if cause exists for modifying, revoking and reissuing, or terminating the permit; or compliance with the conditions of this permit [Section 1a, 7,8 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

SECTION G – GENERAL PROVISIONS (CONTINUED)

5. The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such facts or corrected information to the permitting authority [401 KAR 52:020, Section 7(1)].

6. Any condition or portion of this permit, which becomes suspended or is, ruled invalid as a result of any legal or other action should not invalidate any other portion or condition of this permit [Section 1a, 14 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

7. The permittee shall not use as a defense in an enforcement action the contention that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance [Section 1a, 4 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

8. Except for requirements identified in this permit as state-origin requirements, all terms and conditions shall be enforceable by the United States Environmental Protection Agency and citizens of the United States [Section 1a, 15 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

9. This permit shall be subject to suspension if the permittee fails to pay all emissions fees within 90 days after the date of notice as specified in 401 KAR 50:038, Section 3(6) [Section 1a, 10 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

10. Nothing in this permit shall alter or affect the liability of the permittee for any violation of applicable requirements prior to or at the time of permit issuance [401 KAR 52:020, Section 11(3)(b)].

11. This permit does not convey property rights or exclusive privileges [Section 1a, 9 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

12. Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by the Environmental and Public Protection Cabinet or any other federal, state, or local agency.

13. Nothing in this permit shall alter or affect the authority of U.S. EPA to obtain information pursuant to Federal Statute 42 USC 7414, Inspections, monitoring, and entry [401 KAR 52:020, Section 11(3)(d)].

14. Nothing in this permit shall alter or affect the authority of U.S. EPA to impose emergency orders pursuant to Federal Statute 42 USC 7603, Emergency orders [401 KAR 52:020, Section 11(3)(a)].

SECTION G – GENERAL PROVISIONS (CONTINUED)

a. This permit consolidates the authority of any previously issued PSD, NSR, or Synthetic Minor source preconstruction permit terms and conditions for various emission units and incorporates all requirements of those existing permits into one single permit for this source.

16. Pursuant to 401 KAR 52:020, Section 11, a permit shield shall not protect the owner or operator from enforcement actions for violating an applicable requirement prior to or at the time of issuance. Compliance with the conditions of a permit shall be considered compliance with:
(a) Applicable requirements that are included and specifically identified in the permit and
(b) Non-applicable requirements expressly identified in this permit.

(b) Permit Expiration and Reapplication Requirements

1. This permit shall remain in effect for a fixed term of five (5) years following the original date of issue. Permit expiration shall terminate the source's right to operate unless a timely and complete renewal application has been submitted to the Division at least six months prior to the expiration date of the permit. Upon a timely and complete submittal, the authorization to operate within the terms and conditions of this permit, including any permit shield, shall remain in effect beyond the expiration date, until the renewal permit is issued or denied by the Division [401 KAR 52:020, Section 12].

2. The authority to operate granted shall cease to apply if the source fails to submit additional information requested by the Division after the completeness determination has been made on any application, by whatever deadline the Division sets [401 KAR 52:020 Section 8(2)].

(c) Permit Revisions

1. A minor permit revision procedure may be used for permit revisions involving the use of economic incentive, marketable permit, emission trading, and other similar approaches, to the extent that these minor permit revision procedures are explicitly provided for in the SIP or in applicable requirements and meet the relevant requirements of 401 KAR 52:020, Section 14(2).

2. This permit is not transferable by the permittee. Future owners and operators shall obtain a new permit from the Division for Air Quality. The new permit may be processed as an administrative amendment if no other change in this permit is necessary, and provided that a written agreement containing a specific date for transfer of permit responsibility coverage and liability between the current and new permittee has been submitted to the permitting authority within ten (10) days following the transfer.

SECTION G – GENERAL PROVISIONS (CONTINUED)

(d) Construction, Start-Up, and Initial Compliance Demonstration Requirements

Pursuant to a duly submitted application the Kentucky Division for Air Quality hereby authorizes the construction of the equipment described herein, EP 80, EP 81, EP 85, EP 86, EP 90, EP 91, EP 92, EP 93, EP 100, EP 101, and EP 102 in accordance with the terms and conditions of this permit.

1. Construction of any process and/or air pollution control equipment authorized by this permit shall be conducted and completed only in compliance with the conditions of this permit.

2. Within thirty (30) days following commencement of construction and within fifteen (15) days following start-up and attainment of the maximum production rate specified in the permit application, or within fifteen (15) days following the issuance date of this permit, whichever is later, the permittee shall furnish to the Regional Office listed on the front of this permit in writing, with a copy to the Division's Frankfort Central Office, notification of the following:
   a. The date when construction commenced.
   b. The date of start-up of the affected facilities listed in this permit.
   c. The date when the maximum production rate specified in the permit application was achieved.

3. Pursuant to 401 KAR 52:020, Section 3(2), unless construction is commenced within eighteen (18) months after the permit is issued, or begins but is discontinued for a period of eighteen (18) months or is not completed within a reasonable timeframe then the construction and operating authority granted by this permit for those affected facilities for which construction was not completed shall immediately become invalid. Upon written request, the Cabinet may extend these time periods if the source shows good cause.

4. For those affected facilities for which construction is authorized by this permit, a source shall be allowed to construct with the proposed permit. Operational or final permit approval is not granted by this permit until compliance with the applicable standards specified herein has been demonstrated pursuant to 401 KAR 50:055. If compliance is not demonstrated within the prescribed timeframe provided in 401 KAR 50:055, the source shall operate thereafter only for the purpose of demonstrating compliance, unless otherwise authorized by Section I of this permit or order of the Cabinet.

5. This permit shall allow time for the initial start-up, operation, and compliance demonstration of the affected facilities listed herein. However, within sixty (60) days after achieving the maximum production rate at which the affected facilities will be operated but not later than 180 days after initial start-up of such facilities, the permittee shall conduct a performance demonstration test on the affected facilities in accordance with 401 KAR 50:055, General compliance requirements. These performance tests must also be conducted in accordance with General Provisions G(d)7 of this permit and the

SECTION G – GENERAL PROVISIONS (CONTINUED)

permittee must furnish to the Division for Air Quality's Frankfort Central Office a written report of the results of such performance test.

6. Terms and conditions in this permit established pursuant to the construction authority of 401 KAR 51:017 or 401 KAR 51:052 shall not expire.

7. Pursuant to Section VII 2.(1) of the policy manual of the Division for Air Quality as referenced by 401 KAR 50:016, Section 1.(1), at least one month prior to the date of the required performance test, the permittee shall complete and return a Compliance Test Protocol (Form DEP 6027) to the Division's Frankfort Central Office. Pursuant to 401 KAR 50:045, Section 5, the Division shall be notified of the actual test date at least ten (10) days prior to the test.

8. Pursuant to Section VII 1.(2 and 3) of the policy manual of the Division for Air Quality as referenced by 401 KAR 50:016, Section 1.(1), if a demonstration of compliance, through performance testing was made at a production rate less than the maximum specified in the application form, then the permittee is only authorized to operate at a rate that is not greater than 110% of the rate demonstrated during performance testing. If and when the facility is capable of operation at the rate specified in the application, compliance must be demonstrated at the new production rate if required by the Division.

(e) Acid Rain Program Requirements

If an applicable requirement of Federal Statute 42 USC 7401 through 7671q (the Clean Air Act) is more stringent than an applicable requirement promulgated pursuant to Federal Statute 42 USC 7651 through 7651o (Title IV of the Act), both provisions shall apply, and both shall be state and federally enforceable.

(f) Emergency Provisions

1. Pursuant to 401 KAR 52:020 Section 24(1), an emergency shall constitute an affirmative defense to an action brought for the noncompliance with the technology-based emission limitations if the permittee demonstrates through properly signed contemporaneous operating logs or relevant evidence that:
   a. An emergency occurred and the permittee can identify the cause of the emergency;
   b. The permitted facility was at the time being properly operated;
   c. During an emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit; and
   d. Pursuant to 401 KAR 52:020, 401 KAR 50:055, and KRS 224.01-400, the permittee notified the Division as promptly as possible and submitted written notice of the emergency to the Division when emission limitations were exceeded due to an emergency. The notice shall include a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.

SECTION G – GENERAL PROVISIONS (CONTINUED)

e. This requirement does not relieve the source of other local, state or federal notification requirements.

2. Emergency conditions listed in General Condition (f)1 above are in addition to any emergency or upset provision(s) contained in an applicable requirement [401 KAR 52:020, Section 24(3)].

3. In an enforcement proceeding, the permittee seeking to establish the occurrence of an emergency shall have the burden of proof [401 KAR 52:020, Section 24(2)].

(g) Risk Management Provisions

1. The permittee shall comply with all applicable requirements of 401 KAR Chapter 68, Chemical Accident Prevention, which incorporates by reference 40 CFR Part 68, Risk Management Plan provisions. If required, the permittee shall comply with the Risk Management Program and submit a Risk Management Plan to:

RMP Reporting Center
P.O. Box 3346
Merrifield, VA, 22116-3346

2. If requested, submit additional relevant information to the Division or the U.S. EPA.

(h) Ozone depleting substances

1. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
   a. Persons opening appliances for maintenance, service, repair, or disposal shall comply with the required practices contained in 40 CFR 82.156.
   b. Equipment used during the maintenance, service, repair, or disposal of appliances shall comply with the standards for recycling and recovery equipment contained in 40 CFR 82.158.
   c. Persons performing maintenance, service, repair, or disposal of appliances shall be certified by an approved technician certification program pursuant to 40 CFR 82.161.
   d. Persons disposing of small appliances, MVACs, and MVAC-like appliances (as defined at 40 CFR 82.152) shall comply with the recordkeeping requirements pursuant to 40 CFR 82.166
   e. Persons owning commercial or industrial process refrigeration equipment shall comply with the leak repair requirements pursuant to 40 CFR 82.156.
   f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant shall keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166.

SECTION G – GENERAL PROVISIONS (CONTINUED)

2. If the permittee performs service on motor (fleet) vehicle air conditioners containing ozone-depleting substances, the source shall comply with all applicable requirements as specified in 40 CFR 82, Subpart B, *Servicing of Motor Vehicle Air Conditioners*.